

## ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE REGULATORY CONTACT RECORD

**Date/Time:** 11/18/04 - 1200  
**Site Contact(s):** Karen Wiemelt  
**Phone:** (303) 966-9883  
**Regulatory Contact:** David Kruchek, CDPHE  
**Phone:** (303) 692-3328  
**Agency:** CDPHE

**Purpose of Contact:** Valve Vault 08 Demolition

**Meeting Attendance:** K. L. Wiemelt, KH David Kruchek, CDPHE

### Discussion

On November 18, 2004, David Kruchek/CDPHE and Karen Wiemelt/KH discussed the disposition of Valve Vault (VV) 08. VV 08 is located to the west of Building 707. The vault's dimensions are 13' by 12' by 14' deep. There is also a sump below the bottom of the vault. Additionally, the final grade in this area will be approximately 3½ feet higher than current grade.

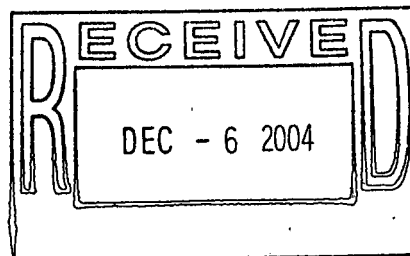
VV 08 was pressure washed to decontaminate it. Results show that this vault has been RCRA clean closed and has no removable Be contamination. The majority of the valve vault meets radiological unrestricted release criteria for both alpha and beta. However, there are a few elevated levels of alpha activity above the unrestricted release levels for fixed contamination in the sump of the valve vault and 2 NPWL stubs located in the lower 4 feet of the valve vault. The sump also has an elevated level of alpha activity slightly above the unrestricted release levels for removable contamination (32 dpm/100 cm<sup>2</sup> vs. 20 dpm/100 cm<sup>2</sup>).

Conservative calculations were done to determine the levels of radiological contamination that would be left in the ground if the valve vault were left in place. The estimated levels of remaining radiological material that would be left are as follows:

- 1.21 pCi/g Pu-239
- 0.27 pCi/g Pu-240
- 1.36 pCi/g Am-241
- 0.05 pCi/g U-234
- 0.05 pCi/g U-235
- 1.43 pCi/g U-238

The calculations show that the residual contamination left is well below Wildlife Refuge Worker Action Levels.

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Based on the approach agreed to for VV 09, VV.08 will be flow-filled to the top of the valve vault. None of the valve vault will be removed since approximately 3½ feet of fill will be added to this area to achieve final configuration. The flow fill will be several feet higher than any level of contamination above the unrestricted release criteria. Associated NPWL outside the valve vault that have not been RCRA clean closed will be removed. However, the NPWL stubs that penetrate the valve vault wall with the elevated readings will remain in place. Additionally, the Closeout Report will include the estimated amount of transuranic material that is left in place.

**Contact Record Prepared By: Karen Wiemelt**

**Required Distribution:**

M. Aguilar, USEPA  
S. Bell, DOE  
R. Birk, DOE  
C. Deck, KH  
D. Foss, KH  
S. Garcia, EPA  
C. Gilbreath, KH  
S. Gunderson, CDPHE

D. Kruchek, CDPHE

J. Legare, RFFO

R. Leitner, KH

J. Mead, KH

G. Morgan, DOE

S. Nesta, KH

K. North, KH

R. Schassburger, DOE

D. Shelton, KH

C. Zahm, KH

**Additional Distribution:**

H. Ainscough, CDPHE

A. Cameron, KH

C. J. Freiboth, KH

G. Carnival, KH

D. Parsons, KH